SAMPLE

Program of Requirements

From: Julie Morrow-Tesch
To: jroberts@mwa.ars.usda.gov
Date: 8 January 1996 1735
Subject: POR

A human and animal waste handling system is required for the Livestock Behavior Laboratory currently under construction. The development of this system(s) will require an investigative report to determine requirements based on the specifications below. After the alternatives are known, A-E will be required to design the system.

* Animal Capacitiy at maximum will be feces and urine from not more than 10 animals on any given day. For most of the research projects, fewer than 5 animals will be in the building on a given day. Water will be used to clean the floor of the facility (flushing of floor surface between animals and high pressure washing of floors and walls at the end of the day). Daily excreta (feces and urine) for a 45 kg pig will average about 3.5 kg which is equivalent to 3.8 liters in volume. Cattle will average 280 kg (weight) or less with a maximum excreta production capacity of approximately 21 kg or 22.8 liters of waste.

* The human system should be designed to handle waste for up to four humans per day including a maximum of 3 showers per day.

* The system should be in close proximity to the behavior building, based on soil testing and

criteria determined by the design of the system (i.e. whether one system can be designed to handle both human and animal waste or whether 2 separate systems need to be in place).

Thank your for your consideration of this A-E project
Julie Morrow-Tesch USDA-ARS Livestock Behavior Research Unit

GENERAL PROGRAM OF REQUIREMENTS
Project No. 3635-20-0003-96
Remove & Replace Existing Underground Storage Tank
and Two Standby Generators

The Avian Disease & Oncology Research Laboratory is engaged in the research of diseases that clause Cancer in Poultry. As part of its mission, standby power is required to protect the facility in case of electrical interruption. The UST contains one thousand gallons of diesel fuel to operate two standby generators.

The existing UST does not meet current regulatory requirements and therefore needs to be replaced. The two generators are twenty to twenty-five years old and the reliability of the generators in case of a power outage is in question. The oldest generator will probably require $5,000 worth of repairs in FY-1996 due to a leaking head gasket.

The main electrical disconnects for distribution of electrical power to the entire facility is located in an unsecured area and needs to be relocated inside the new building.

The feed building and feed tanks located on the proposed new building site would be relocated.

The project would require the relocation of an existing feed shed to a location more suitable for feed delivery. A block building would be built at the present location of the feed shed. The new building would house a new thousand gallon storage tank, two standby generators (size needs to be determined), and the commercial power supply distribution system.

GENERAL PROGRAM OF REQUIREMENTS
Project No. 3635-20-0004-96
Repair Roof on Building No. 1A
and Correct Safety Items

The Avian Disease & Oncology Research Laboratory is engaged in the research of diseases that cause Cancer in poultry. As part of its mission, the program provides laboratory space to conduct Scientific Research.

The flat roof on Building No.1A needs to be repaired because it has some leaks. In addition, the third floor exit to the roof does not meet current OSHA requirements for an exit.

The current roof membrane system needs replacing with the appropriate roofing system for a flat roof.

The satellite dish shall be moved and permanently anchored to the roof using a curb system similar to the HVAC system attachment currently located on the roof.

Anyone exiting the third floor from Building No.1 must cross the roof on Building No.1A. A handrail and walkway system needs to be installed in order to be an OSHA approved exit.

GENERAL PROGRAM OF REQUIREMENTS
Project No. 3635-20-0002-96
New Roof for Building No. 17 (IBCA)

The Avian Disease & Oncology Research Labortory is engaged in the research of diseases that cause Cancer in Poultry. As part of its mission, poultry rearing facilities are required.

The roof on Building No. 17 is badly deteriorated and leaks in several areas when it rains. The shingles are brittle and provide little or no protection.

The existing roof needs to be completely torn off and new fiber glass shingles, felt, ice shield, roof vents and soffit vents installed. All damages boards shall be replaced. An existing block chimney shall be removed and hole patched.

The shingles shall be nailed and not stapled when installed.

GENERAL PROGRAM OF REQUIREMENTS
Project No. 3635-20-0004-96
Repair Slate Roofs on Building No.1,2,4,6,7, and 8

The Avian Disease & Oncology Research Laboratory is engaged in the research of diseases that cause Cancer in poultry. As part of its mission, the program provides poultry rearing facilities and laboratory space to conduct Scientific Research.

The slate roofs on Building No. 1,2,3,4,6,7, and 8 needs to be repaired. Some of the slate on these buildings has become damaged or is missing. New slate needs to be installed only where it is damaged or missing. New slates needs to be installed only where it is damaged or missing. The replacement slate shall match the existing. Extreme care shall be used when working on these roofs to insure that there is no additional damage to the roofs.

All copper flashings on the eight buildings shall be repaired as needed.

Building No.1 has nine dormers and an exit that needs to have the wood moldings replaced and a matching fiber glass moldings installed. The current wood moldings will need to be abated because they are coated with paint.

GENERAL PROGRAM OF REQUIREMENTS
Project No. 3635-20-0004-96
Replace Heating System in Building No. 7

The Avian Disease & Oncology Research Laboratory is engaged in the research of disease that cause Cancer in poultry. As part of its mission, the program maintains a breeding and expermential poultry housing.

The heating system in Building No. 7 needs to be replaced. This includes the boiler and related coils and new ductwork to replace finx tube baseboard units.

Design was completed to redo the system but it did not include the boiler replacement. The design package needs to be review to insure that all current requirements are being meet. [an error occurred while processing this directive] April 20, 2002 [an error occurred while processing

this directive]